

formally donated his collection to the trustees, reserving to himself the custody of the Geometridæ and certain Pyradid families so long as he should need them in his work. The Rhopalocera and Heterocera, exclusive of the groups above mentioned, were transferred to New Brunswick in 1891, becoming the nucleus of the collection at present in the institution there.

For George D. Hulst, the Entomologist, his work will speak; for the man all those who, having known, loved him.

J. B. SMITH.

Some Hymenopterous Parasites from Dragon-fly Eggs.

BY WILLIAM H. ASHMEAD.

FAMILY LXXI EULOPHIDÆ.

HYPERTELES Förster.

(1) **Hyperteles polynemæ** n. sp.

♀.—Length 3 to 3.5 mm. Æneous black, impunctate, the pronotum, the mesonotum and the metanotum with a brassy tinge. Metathorax with a median carina. Abdomen greatly elongated and produced into a long, slender point. Scape, pedicel and legs, except the last joint of tarsi which is fuscous, uniformly brownish-yellow; flagellum dark brown, or brown-black, pubescent. Wings rather long, hyaline and with a delicate marginal cilia, the veins yellowish, the marginal vein very long, nearly twice the length of the subcostal vein; the stigmal vein short, about one-third the length of the subcostal. Abdomen very long, fasiformly pointed, more than three times longer than the head and thorax united.

♂.—Length 1.3 to 2 mm. In color quite variable and difficult to distinguish from males in the genera *Tetrastichus* and *Tetrastichodes*. The scape, pedicel and legs are always brownish-yellow; the scape being rather large, subcompressed; the flagellum long, dark brown, and clothed with short hairs. Some specimens have the head, except the mouth parts, the thorax and abdomen, entirely æneous black or blue-black; others have the whole face below the antennæ and the head behind yellow; others have most of the head, except the vertex, the thorax at sides and beneath and a large spot on the mesonotum, including sometimes the scutellum, yellow; while still others are almost wholly yellow above, except the metanotum. The abdomen in all is elongate, always distinctly longer than the head and thorax.

Hab.—Lake Forest, Illinois.

Type.—Cat. No. 5322, U. S. N. M.

Host.—Odon. : Eggs of *Lestes* sp. Bred August 12, 1899, by Prof. James G. Needham. Evidently a hyper-parasite on the *Polynema* noted below.

TETRASTICHUS Haliday.

(2) **Tetrastichus polynemæ** n. sp.

♀.—Length 1.1 mm. Steel blue, impunctate; abdomen, except at base, æneous; scape, pedicel beneath and legs, except coxæ and femora toward base, yellowish or yellowish-white; coxæ metallic; anterior and middle femora tinged with brown, the hind femora brown; flagellum brown pubescent. Wings hyaline, pubescent, the veins very pale, the marginal vein one-third longer than the subcostal. Abdomen pointed, ovate, about one-fourth longer than the head and thorax united.

Hab.—Lake Forest, Illinois.

Type.—Cat. No. 5323, U. S. N. M.

Host.—Odon. : Eggs of *Lestes* sp. Bred August 4, 1899, by Prof. James G. Needham. Undoubtedly a hyper-parasite of *Polynema needhami*.

FAMILY LXXII TRICHOGRAMMIDÆ.

BRACHISTA Haliday.

(3) **Brachista pallida** n. sp.

♀.—Length 0.6 mm. Brownish-yellow; the ocelli, the eyes, the sutures of the mesopleura, a streak on hind coxæ behind, and a row of dots along the lateral margins of abdomen, brown; while the legs, including the coxæ, except the streak behind, are very pale yellowish, nearly white. Wings hyaline, pubescent, the hairs not arranged in rows, the margins ciliate, the marginal vein strongly curved with the stigmal. Antennæ very short, 6-jointed, the flagellum with the pedicel not much longer than the scape; pedicel large, a little shorter but as thick as the club; funicle 2-jointed, the joints small; club fusiform, 3-jointed, brownish. Abdomen sessile, pointed ovate, the ovipositor hardly projecting beyond the tip of abdomen.

Hab.—Lake Forest, Illinois.

Type.—Cat. No. 5320, U. S. N. M.

Host.—Odon. : Eggs of *Lestes* sp. Bred August 12, 1900, by Prof. James G. Needham.

CENTROBIA Förster.

(4) **Centrobia odonatæ** n. sp.

♀.—Length 0.8 mm. Black, slender, the abdomen much acuminate, ending in a prominent ovipositor. Mouth parts brownish-yellow. An-

tennæ short, 6-jointed without a ring-joint, brown-black, the flagellum tapering off at apex, not ending in a distinct club. Wings hyaline, the pubescence arranged in radiating rows, the margins with a distinct but short cilia, the marginal and stigmal veins brown the latter oblique, shorter than the marginal. Legs brownish-yellow, the femora more or less obfuscated. Abdomen elongate, sessile, strongly acuminate towards apex and more than twice longer than the thorax.

Hab.—Lake Forest, Illinois.

Type.—Cat. No. 5321, U. S. N. M.

Host.—Odon. : Eggs of *Lestes* sp. Bred August 12, 1900, by Prof. James G. Needham.

FAMILY LXXIII MYMARIDÆ.

POLYNEMA Haliday.

(5) **Polynema needhami** n. sp.

♀.—Length 0.9 mm. Ovipositor two-thirds the length of the abdomen. Polished black, impunctate, the parapsidal furrows distinct; scape, pedicel, the small first joint of the flagellum, the petiole of abdomen, and the legs, except usually the middle and tibia and last joint of all tarsi, honey-yellow; the flagellum, the middle and hind tibiæ and last joint of all tarsi brown or fuscous. Wings hyaline, with a long marginal fringe, the punctiform marginal vein brown. Abdomen elongate ovate, a little longer than the head and thorax united. Antennæ 9-jointed, terminating in a solid ellipzoidal club.

♂.—Length scarcely 0.8 mm. Agrees well with the female, except that the scape, pedicel and legs are more decidedly of a paler yellow, the hind tibiæ and last joint of tarsi alone brown, the tibiæ with a pale annulus at base; sometimes, but rarely, the middle tibiæ are also dusky with a pale annulus at base; the antennæ are much longer, 13-jointed, the joints of the flagellum all long, the first a little shorter than the second; while the abdominal petiole is as long as the hind coxæ, yellow; the remainder of the abdomen being black, ovate, and scarcely the length of the thorax.

Hab.—Lake Forest, Illinois.

Type.—Cat. No. 5319, U. S. N. M.

Host.—Odon. :—Eggs of *Lestes* sp. Bred August 12, 1899, by Prof. James G. Needham.

CATERPILLARS BY THE QUART.—Saratoga, N. Y., has hit upon a novel but apparently effective method of exterminating the caterpillars which had started out to destroy the street shade trees. The village authorities offered to pay so much a quart for all caterpillars brought to them to be burned or buried alive. One day three hundred people, residents and visitors, brought the pests in pails and pans and received twenty cents a quart for them. Nearly \$200 was paid out in one day. This method is found to be much more effective than spraying the trees.—*Newspaper*.